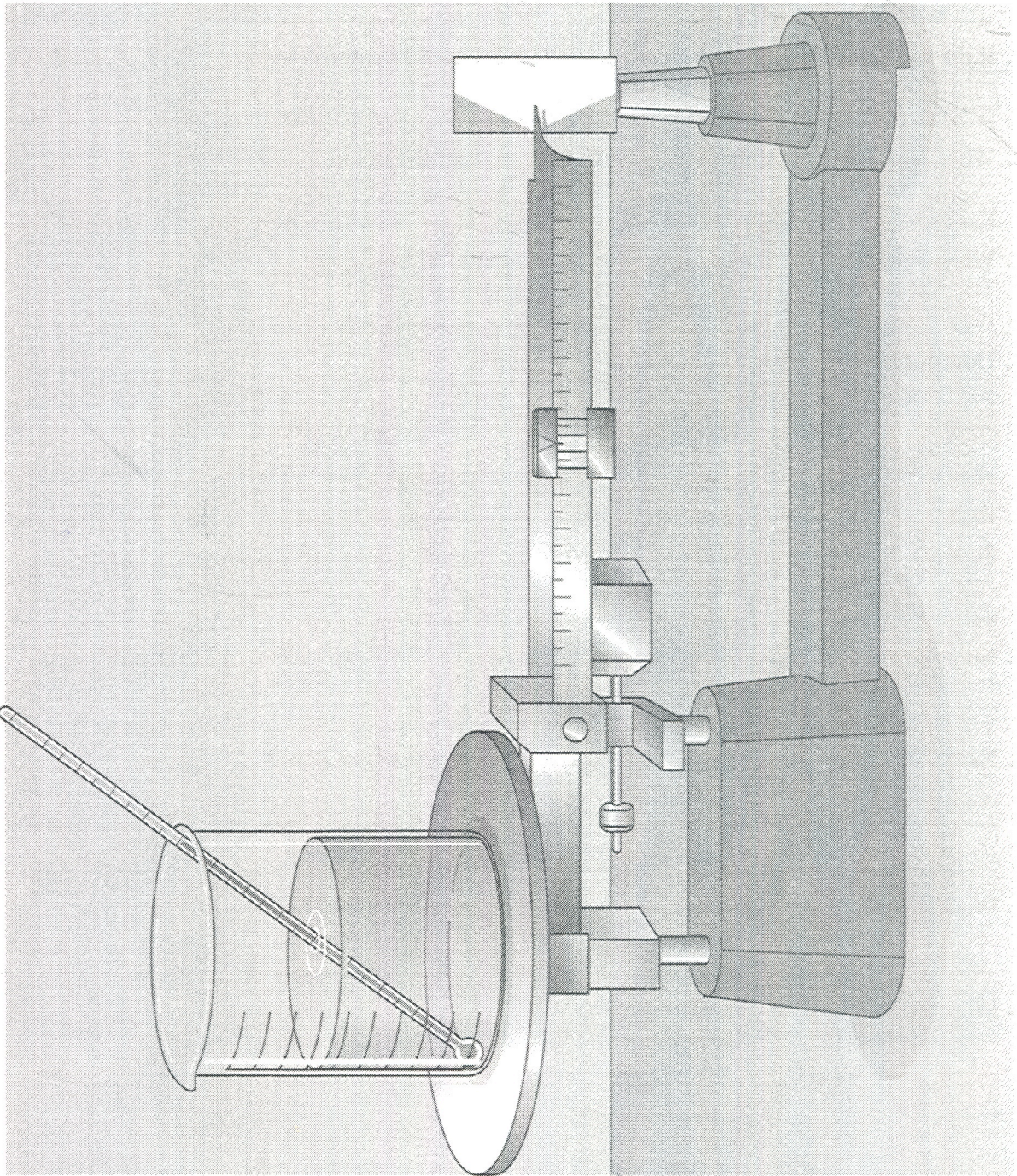


Use with Chapter 1  
Section 1.2

# Measurements in Science





# Measurements in Science

1. What is the standard SI unit for measuring the height of the beaker?

\_\_\_\_\_

2. If the thermometer is 25 cm long, what is its length in millimeters?

\_\_\_\_\_

3. What is the standard SI unit for measuring the mass of the liquid in the beaker?

\_\_\_\_\_

4. What is the standard SI unit for measuring the weight of the liquid?

\_\_\_\_\_

5. How does the liquid's mass differ from its weight?

\_\_\_\_\_

\_\_\_\_\_

6. Suppose the liquid has a mass of 179 g. Write the mass in grams using scientific notation.

\_\_\_\_\_

7. Name one SI unit that can be used to measure the area of the top surface of the liquid.

\_\_\_\_\_

8. Name one SI unit that can be used to measure the volume of the liquid.

\_\_\_\_\_

\_\_\_\_\_

9. What two scales are used in science to measure the temperature of the liquid?

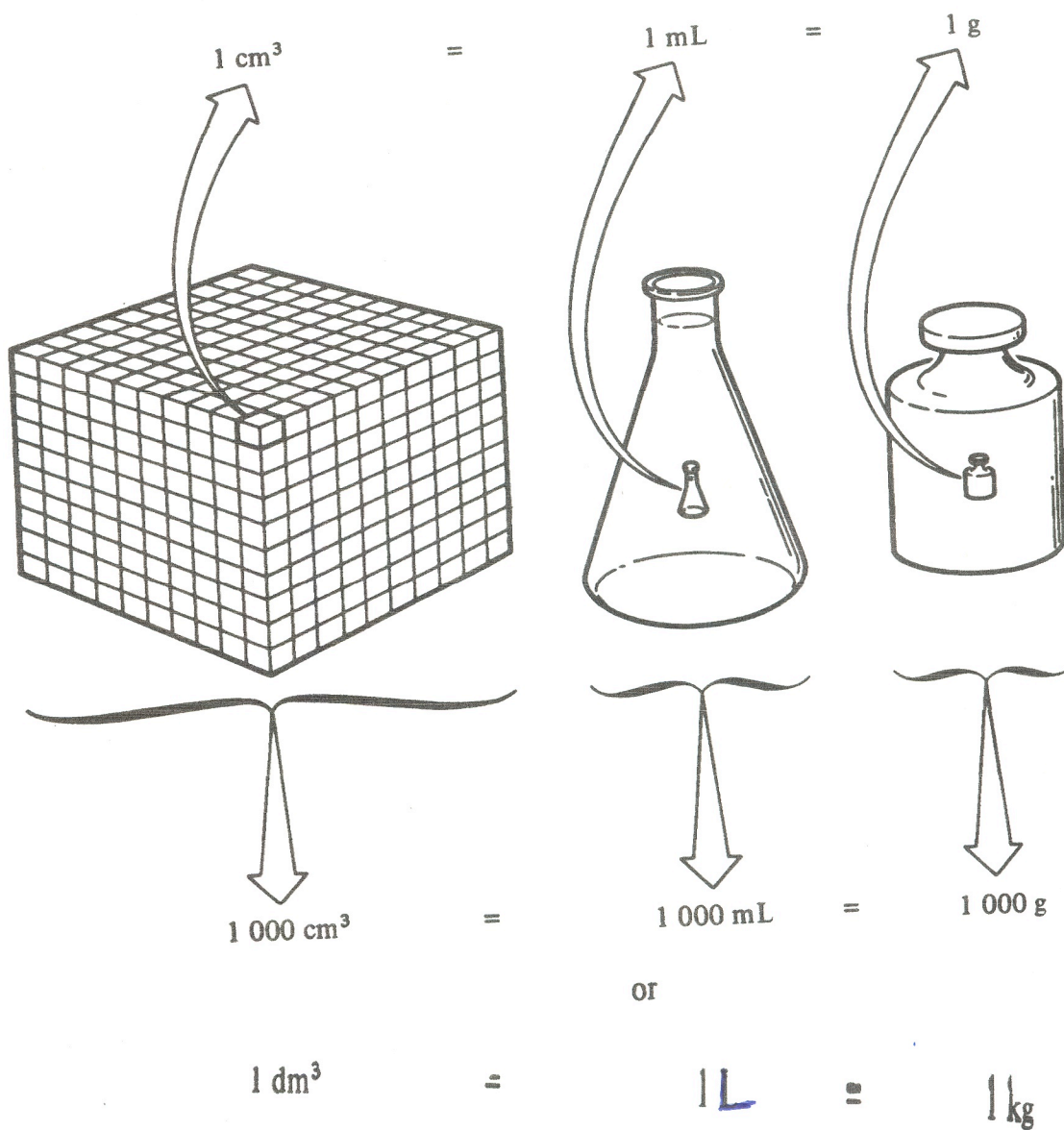
\_\_\_\_\_

10. Which temperature scale is a part of SI?

\_\_\_\_\_

138 Section 3 Metric Measure

- At 4 degrees Celsius and standard pressure (760 millimetres), the volume and mass of water are equivalent relationships.



# Metric System Challenge

Name \_\_\_\_\_

1. Instrument used to find mass. \_\_\_\_\_  
21 17
2. Metric unit for length \_\_\_\_\_  
23 20
3. Amount of space an object takes up \_\_\_\_\_  
16
4.  $9.8 \text{ m/s}^2$  \_\_\_\_\_  
10
5. Metric unit for mass \_\_\_\_\_  
15
6. Instrument used to measure volume \_\_\_\_\_  
6 8 25
7. Mass  $\div$  volume \_\_\_\_\_  
19 24
8. 1 meter = 100 \_\_\_\_\_  
4
9. Metric unit for weight \_\_\_\_\_  
5
10. Metric unit for liquid volume \_\_\_\_\_  
3
11. Amount of matter in an object \_\_\_\_\_  
26
12. Measure of the force of gravity acting on an object \_\_\_\_\_  
18
13. Metric unit for temperature \_\_\_\_\_  
11 1
14. 1 liter = 1,000 \_\_\_\_\_  
7
15. The name of the "bubble" \_\_\_\_\_  
22
16. 1000 grams = 1 \_\_\_\_\_  
12
17. Instrument used to measure length \_\_\_\_\_  
14
18. 1 milliliter = 1 \_\_\_\_\_  
13
19. Width, height, thickness, or distance \_\_\_\_\_  
9
20. Formula for calculating volume \_\_\_\_\_  
x x 2

Why were the teacher's eyes crossed?

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 !